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PATENT  
07/352,530

#12

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Before the Examiner:  
R. A. Fabbio et al : A. Jankus  
Serial No.: 07/352,530 : Group Art Unit: 2301  
Filed: May 15, 1989 : Intellectual Property  
Title: OBJECT DATABASE-DRIVEN : Law Department  
SHELL FOR A DATA PROCESSING : International Business  
SYSTEM : Machines Corporation  
June 26, 1992 : 11400 Burnet Road  
: Austin, Texas 78758

TRANSMITTAL OF FORMAL DRAWINGS

Honorable Commissioner of Patents and Trademarks  
Washington, D. C. 20231

Sir:

Attached are the formal drawings (18) for the  
above-identified application.

Respectfully submitted,

*R. Carwell*

Robert M. Carwell  
Attorney for Applicants  
Registration No. 28,499  
(512) 823-1017

RMC/bar

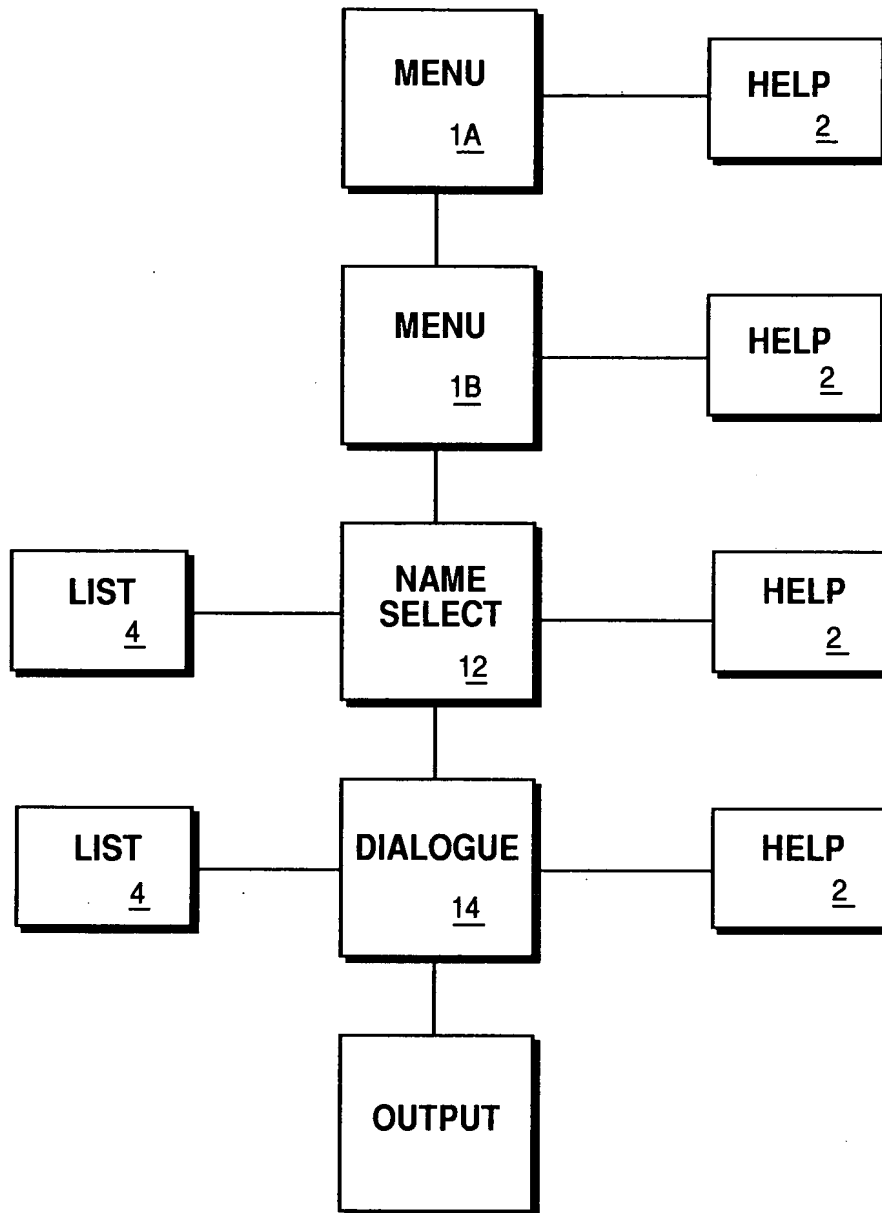


FIG. 1A

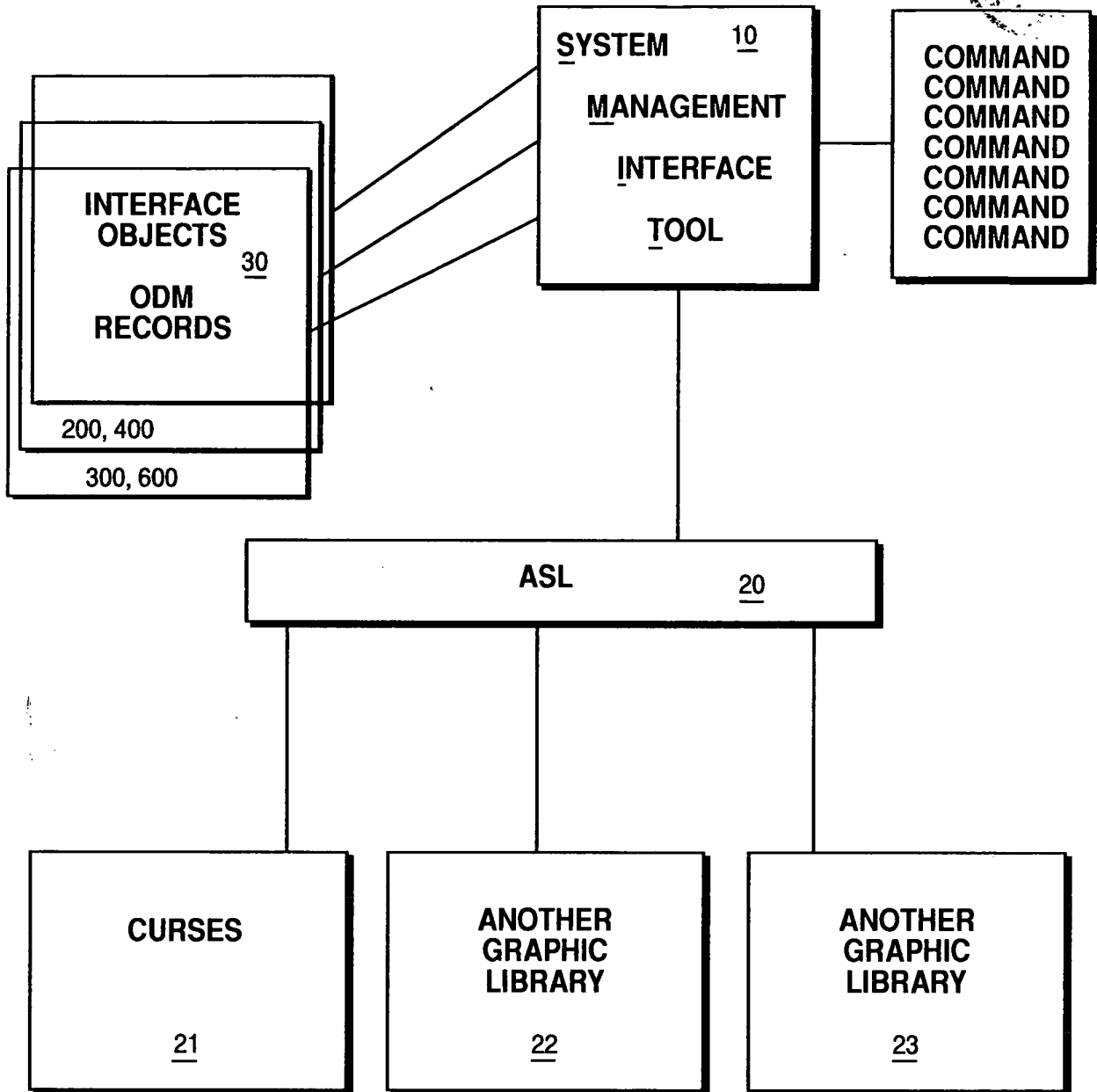


FIG. 1B



S 200

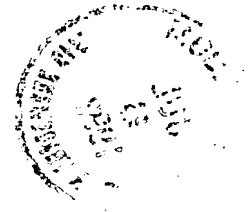
## SMIT MENU OBJECT CLASS (sm\_menu\_opt)

Each item on a menu in the SMIT tree corresponds to a menu object. The "menu" appearing on the screen is a set of these objects.

```
    struct sm_menu_opt {  
202 ~*id;                /* symbolic key for object          */  
203 ~*id_seq_num;        /* seq # for recs in this set      */  
204 ~*next_id;           /* symbolic key for next object    */  
205 ~*text;              /* describes task                   */  
206 ~*text_msg_file;     /* Message Facilities catalogue name*/  
207 ~text_msg_set;       /* Message Facilities set id for name*/  
208 ~text_msg_id;        /* Message Facilities message id for name*/  
209 ~next_type;          /* type of next action if this item picked */  
210 ~alias;              /* is/is not fast path ptr to another screen */  
211 ~help_msg_id         /* help system id/key for help text */  
    };
```

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FIG. 2



300

## SMIT DIALOGUE OBJECT CLASS (sm\_cmd\_opt)

Each dialogue (leaf) in the SMIT tree has an array of one or more options. Each option corresponds to a fields (parameter, option, or attributes) of the command that the dialogue performs.

```
    struct sm_cmd_opt {
302 ~*id;                /* symbolic key for object */
303 ~*id_seq_num;        /* seq # for objects in this set */
304 ~*disc_field_name;   /* output hdr from cmd_to_discover */
305 ~*name;              /* field name */
306 ~*name_msg_file;     /* Message Facilities catalogue for name */
307 ~name_msg_set;       /* Message Facilities set id for name */
308 ~name_msg_id;        /* Message Facilities message id for name */
309 ~op_type;            /* method used to manage this field */
321 ~entry_type;         /* type of entry allowed in this field */
322 ~entry_size;         /* width of entry allowed in this field */
310 ~required;          /* is/is not reqd. for each exec of cmd */
311 ~*prefix;            /* AIX cmd flag for this option */
313 ~cmd_to_list_mode;   /* amount of listed item to use */
312 ~*cmd_to_list;       /* AIX cmd string for list of candidates */
323 ~cmd_to_list_postfix; /* where to get cmd postfix, if any */
324 ~multi_select;       /* multiple select from list is/is not valid */
314 ~value_index;        /* zero-origin index of value string, if ring */
315 ~*disp_values;       /* current, default or allowed values */
316 ~*values_msg_file;   /* Message Facilities catalogue for values */
317 ~values_msg_set;     /* Message Facilities set id for values */
318 ~values_msg_id;      /* Message Facilities message id for values */
319 ~*aix_values;        /* current, default or allowed values */
320 ~help_msg_id;        /* help system id for help text */
325 ~*cmd_to_validate    /* AIX cmd string for validation */
    };
```

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FIG. 3



400

**SMIT DIALOGUE HEADER OBJECT CLASS (sm\_cmd\_hdr)**

There is a header for each dialogue in the SMIT tree.

```
struct sm_cmd_hdr {  
402 ~*id; /* symbolic for object */  
403 ~*option_id; /* pointer to dialogue object */  
405 ~*has_name_select; /* is/is not preceded by a name selector */  
404 ~*name; /* descriptive command name (task) */  
406 ~*name_msg_file; /* Message Facilities catalogue file */  
407 ~name_msg_set; /* Message Facilities set id for name field */  
410 ~name_msg_id; /* Message Facilities id for name field */  
408 ~*cmd_to_exec; /* AIX command string to execute */  
409 ~ask; /* assure that user wants to execute cmd */  
413 sexec_mode; /* command execution mode */  
411 sghost; /* display or go straight to command */  
412 s*cmd_to_discover; /* cmd to fill in default/current values */  
414 s cmd_to_discover_postfix; /* where to get cmd postfix, if any */  
415 sname_size; /* size of name field; default used if = 0 */  
416 svalue_size; /* size of value field; default used if = 0 */  
417 shelp_msg_id; /* help system id/key for help text */  
};
```

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**FIG. 4**

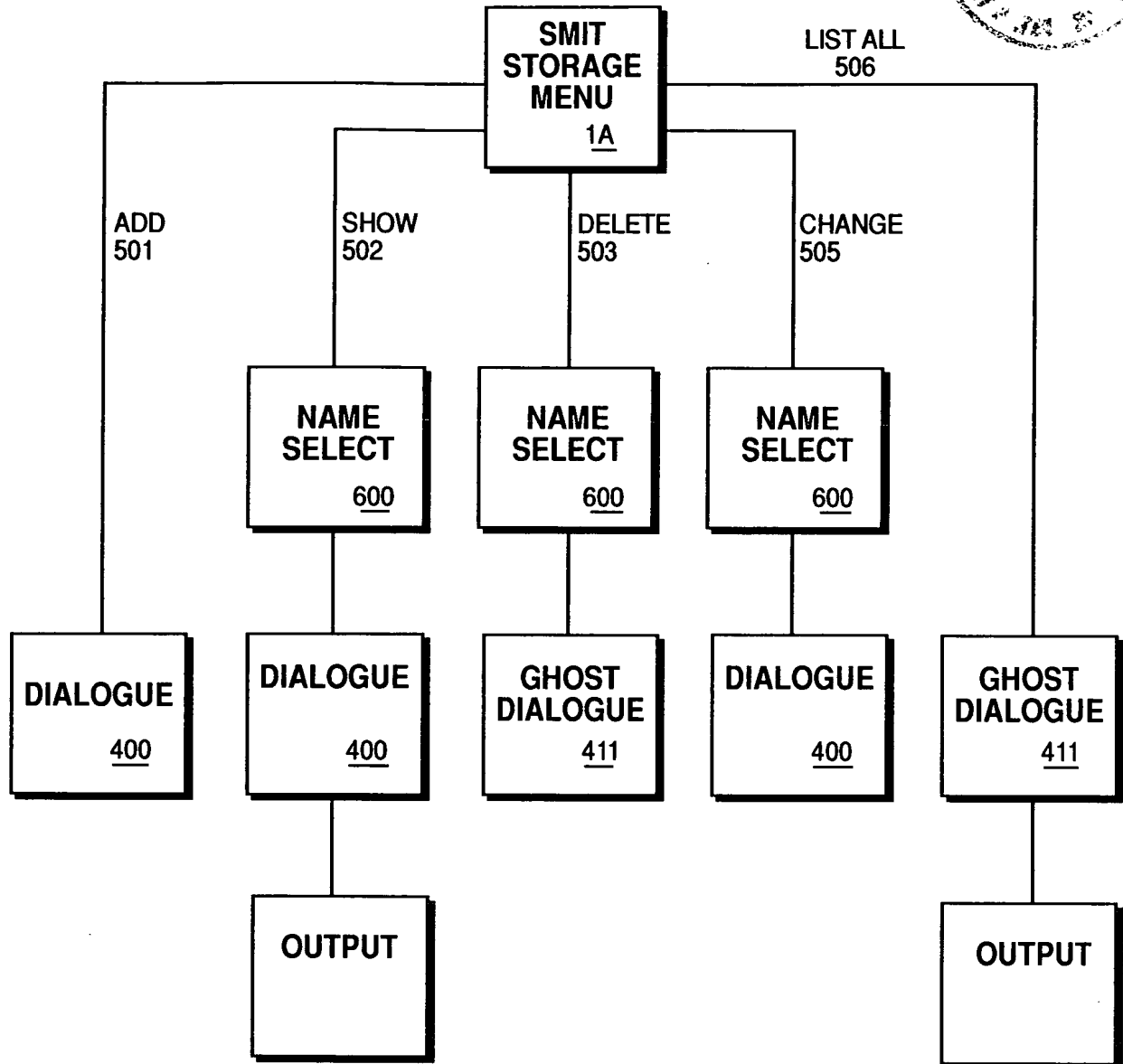


FIG. 5A

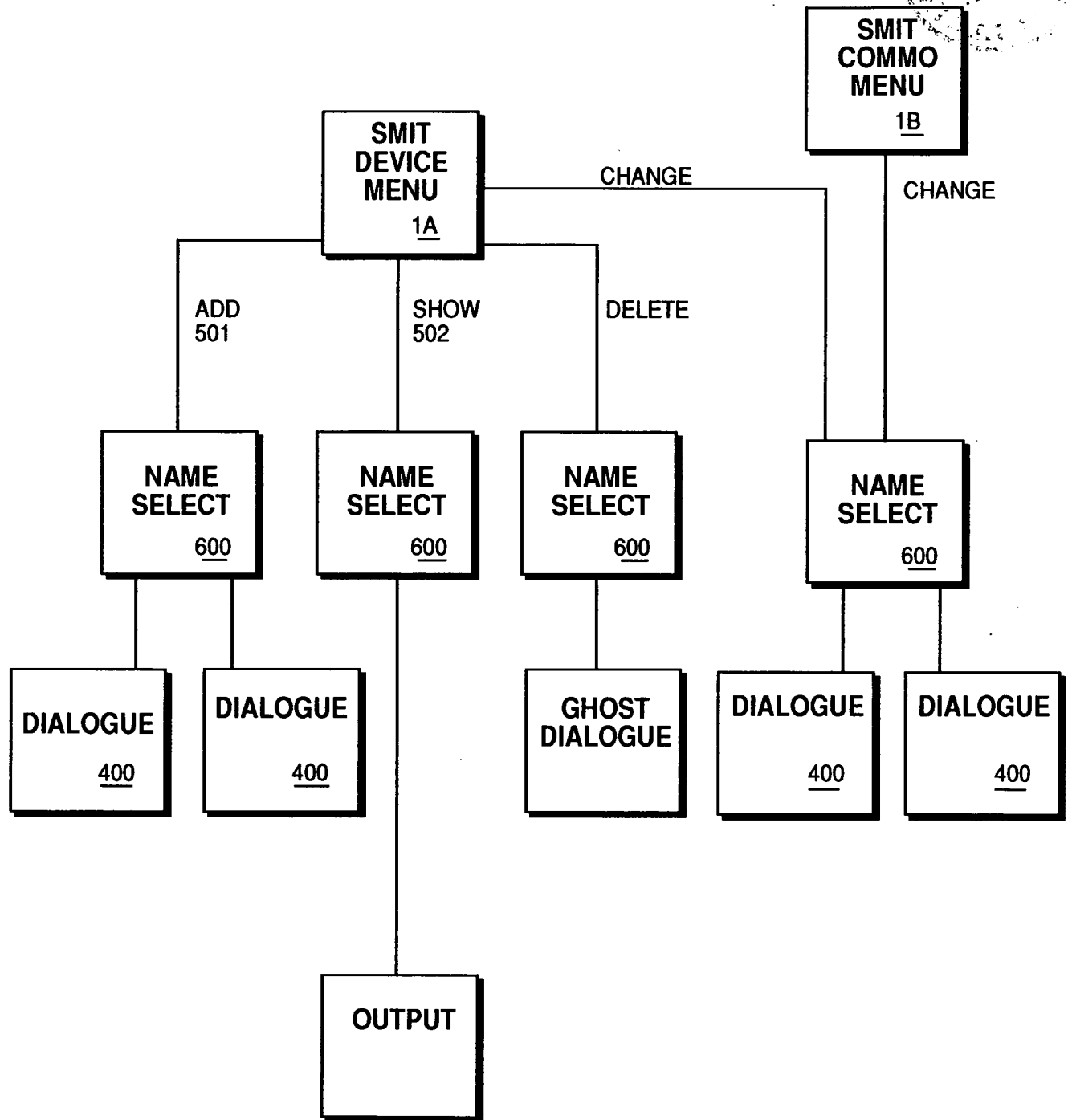


FIG. 5B



5 600

## SMIT NAME SELECT HEADER OBJECT CLASS (sm\_name\_hdr)

A name select header object may, if needed, be created for each dialogue that appears as the terminal node (leaf) in the SMIT application. This header points to one **sm\_cmd\_opt** object which is used to solicit an instance of the object upon which the subsequent dialogue will act. (See above for specification of that object. )

```
    struct sm_name_hdr {  
602 ~*id;           /* symbolic key for object          */  
603 ~*next_id;     /* symbolic key for next cmd hdr object */  
605 ~*option_id    /* symbolic key for name selector cmd opt */  
604 ~*name;        */  
606 ~*name_msg_file; /* Message Facilities catalogue name */  
607 ~ name_msg_set; /* Message Facilities set id for name */  
608 ~ name_msg_id;  /* Message Facilities message id for name */  
609 ~ type;         /* method to process name selected */  
610 ~ ghost;        /* display or go straight to listing */  
614 ~*cmd_to_classify; /* AIX cmd to classify name */  
611 ~ help_msg_id;  /* help system id/key for help text */  
    };
```

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FIG. 6

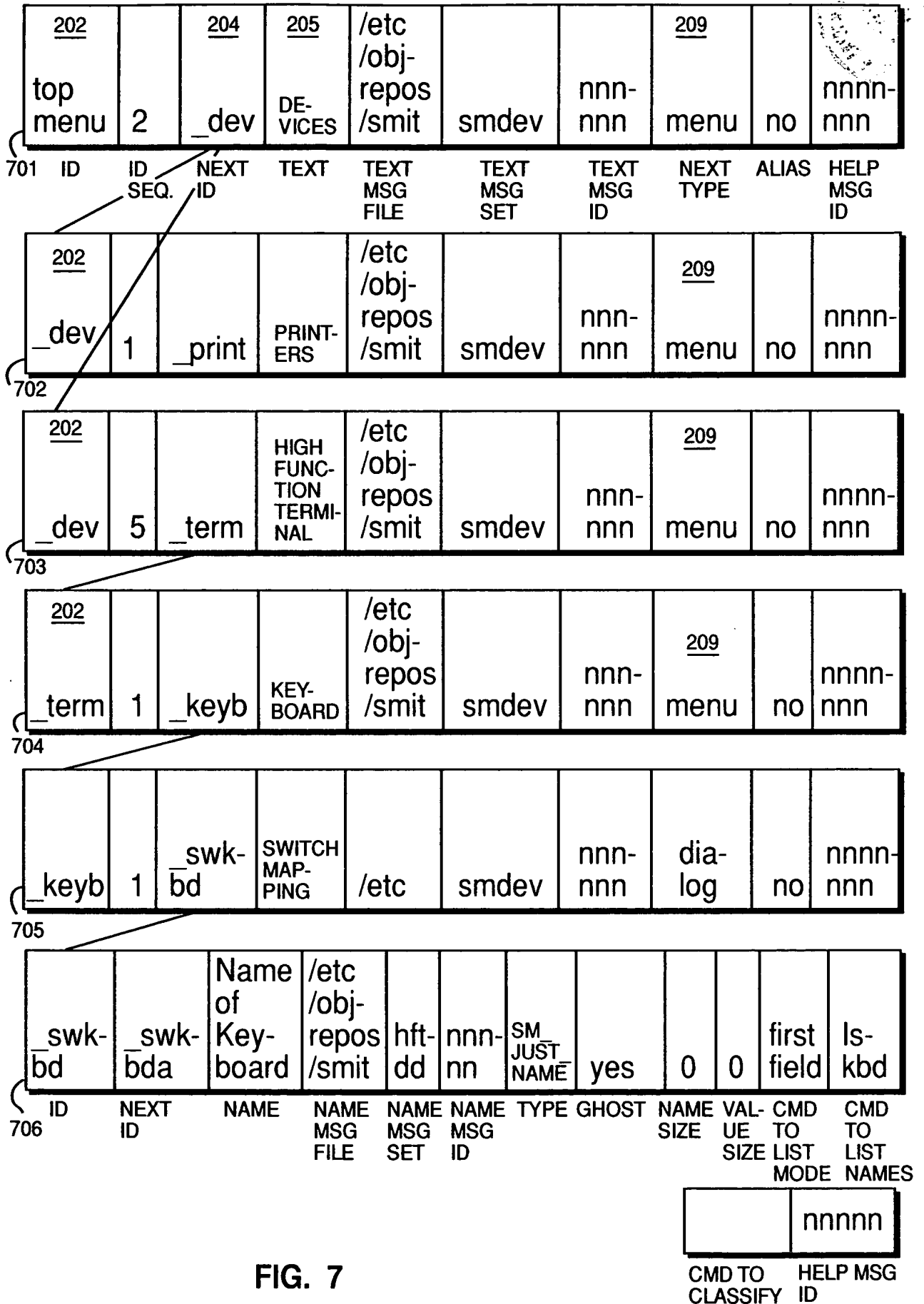


FIG. 7

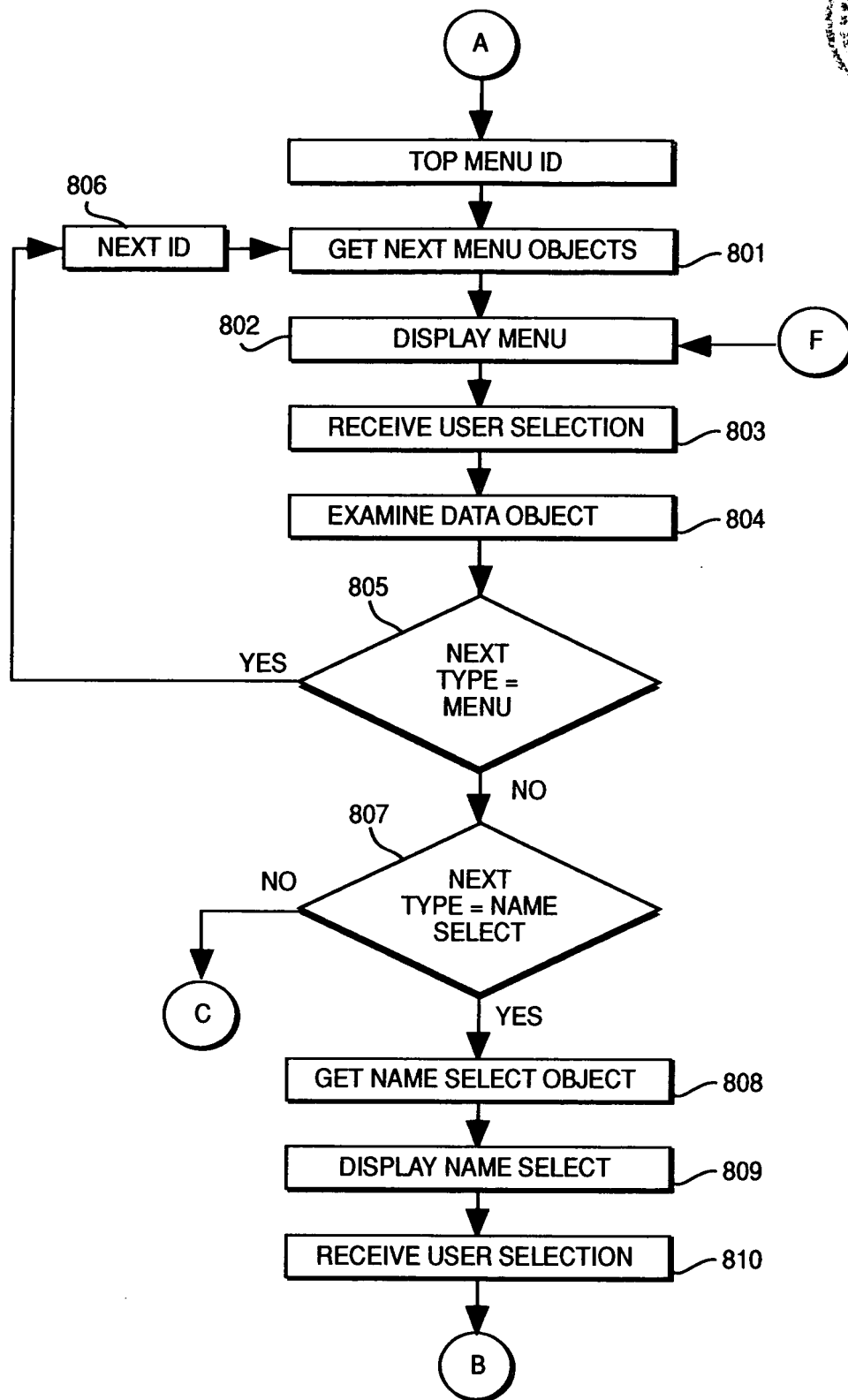


FIG. 8A

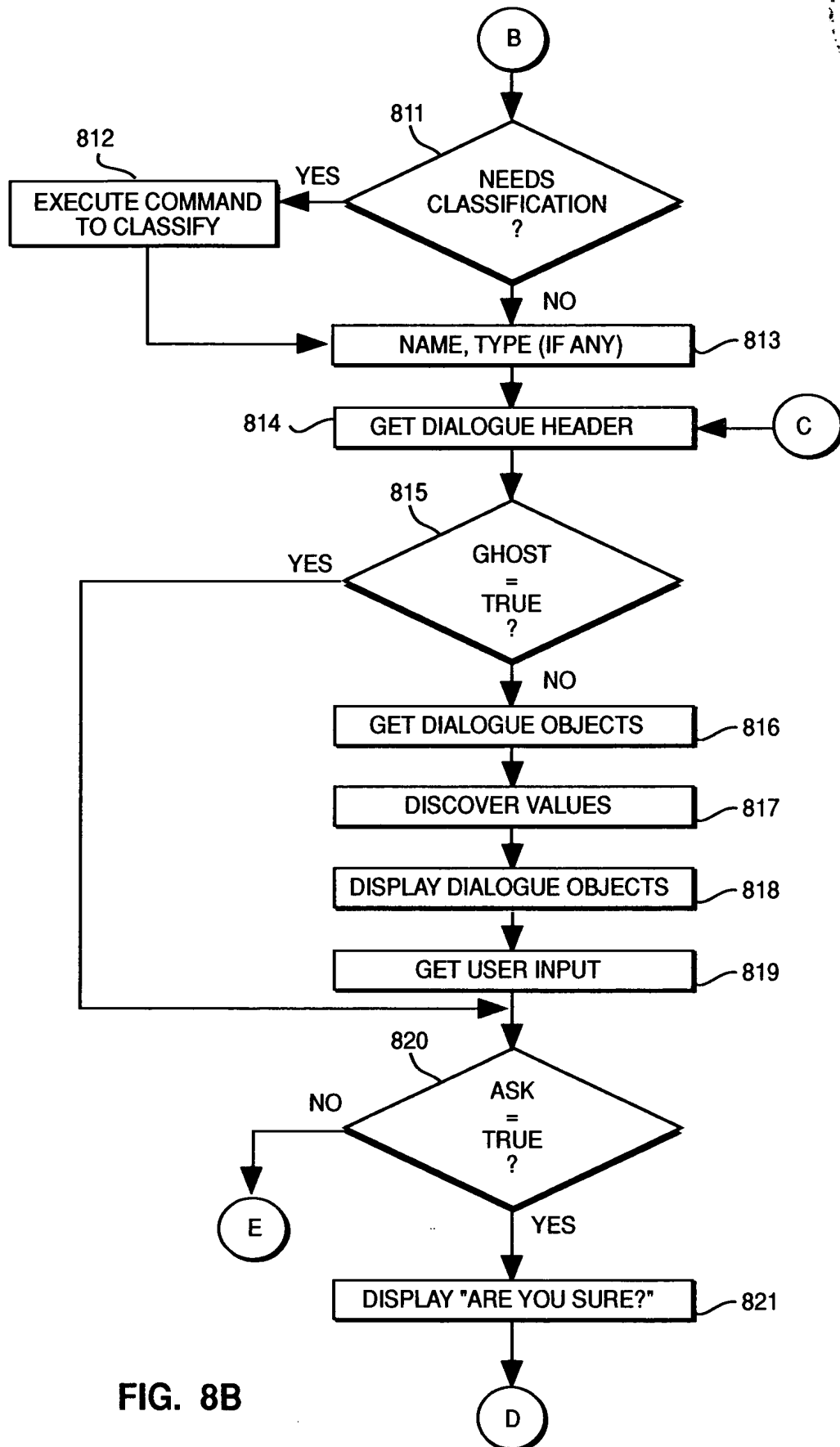


FIG. 8B

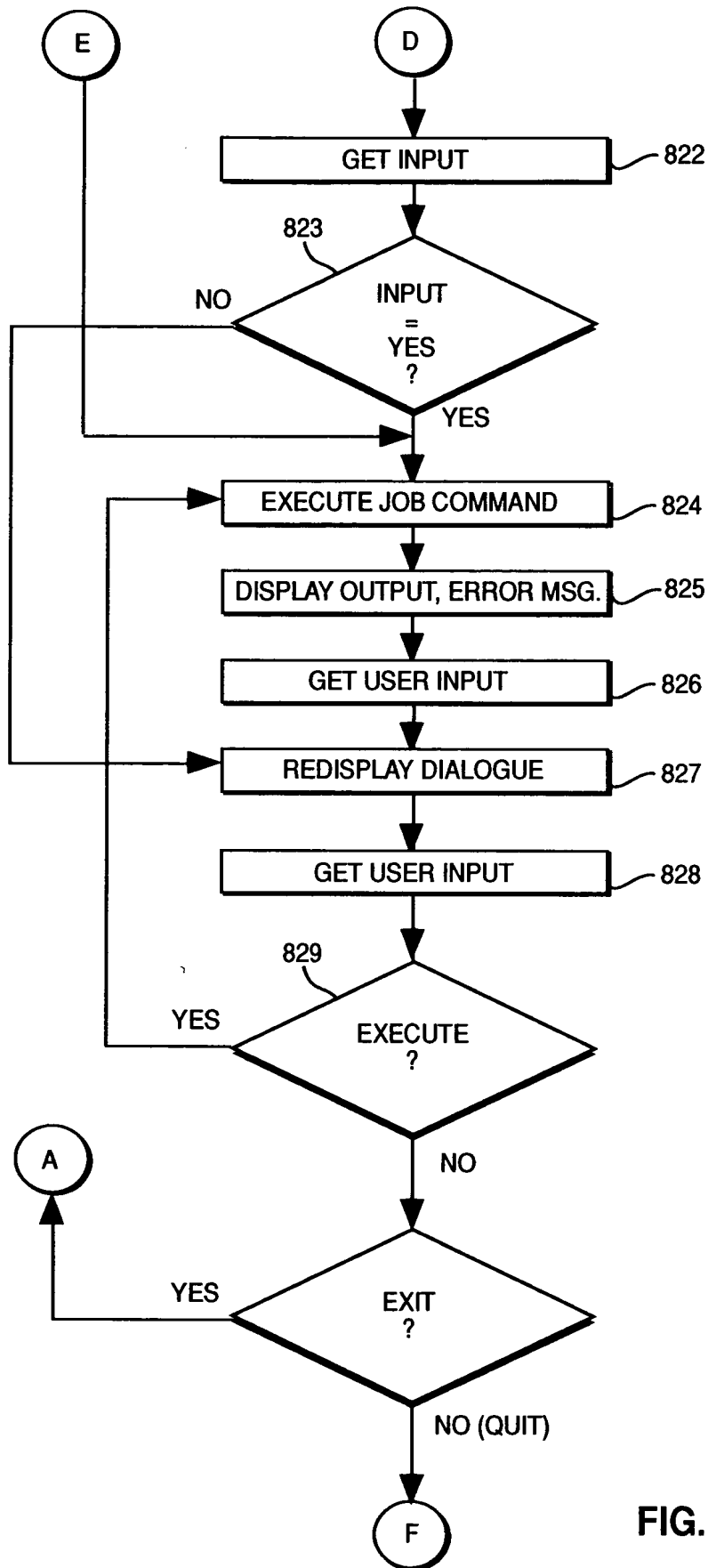


FIG. 8C

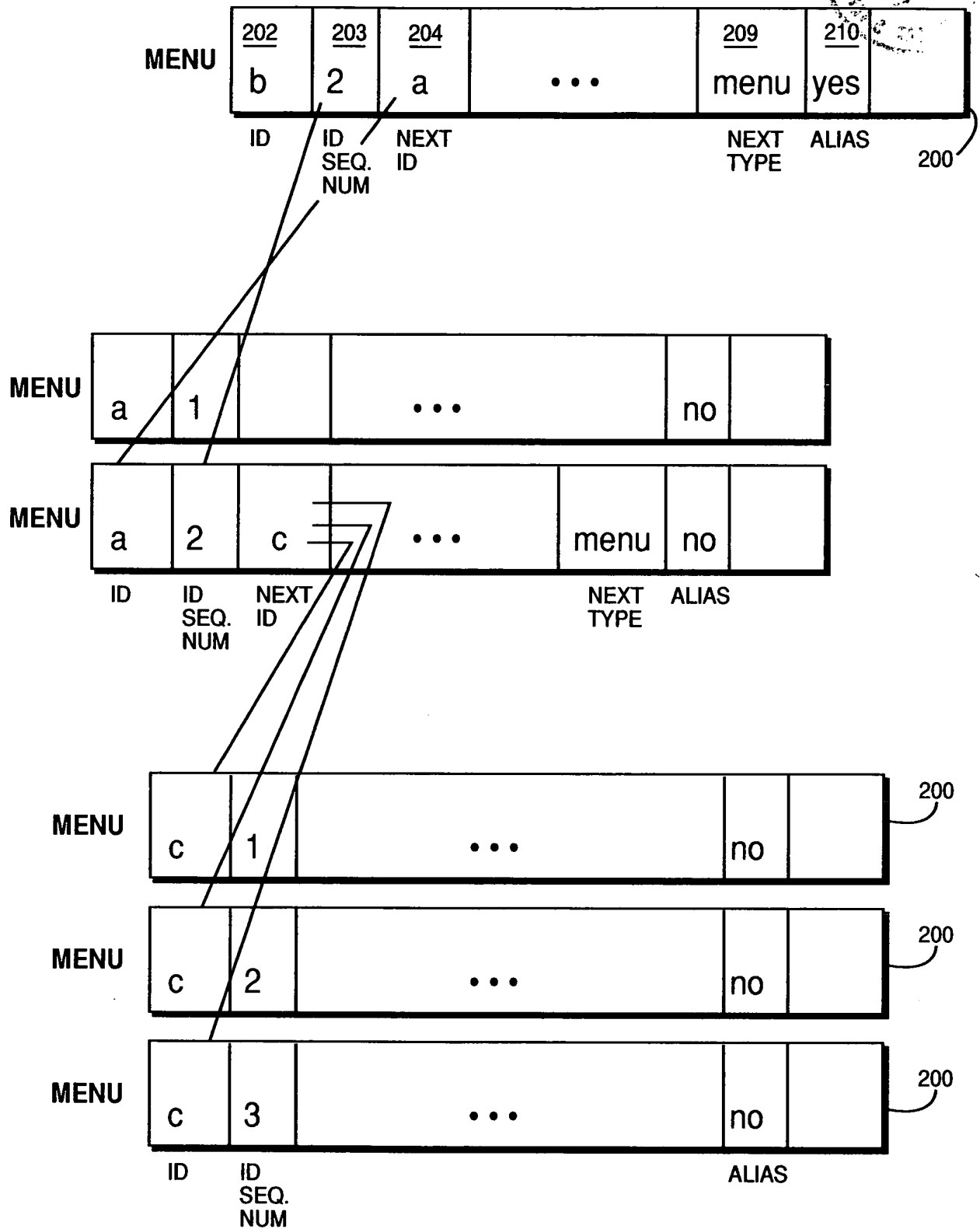


FIG. 9A

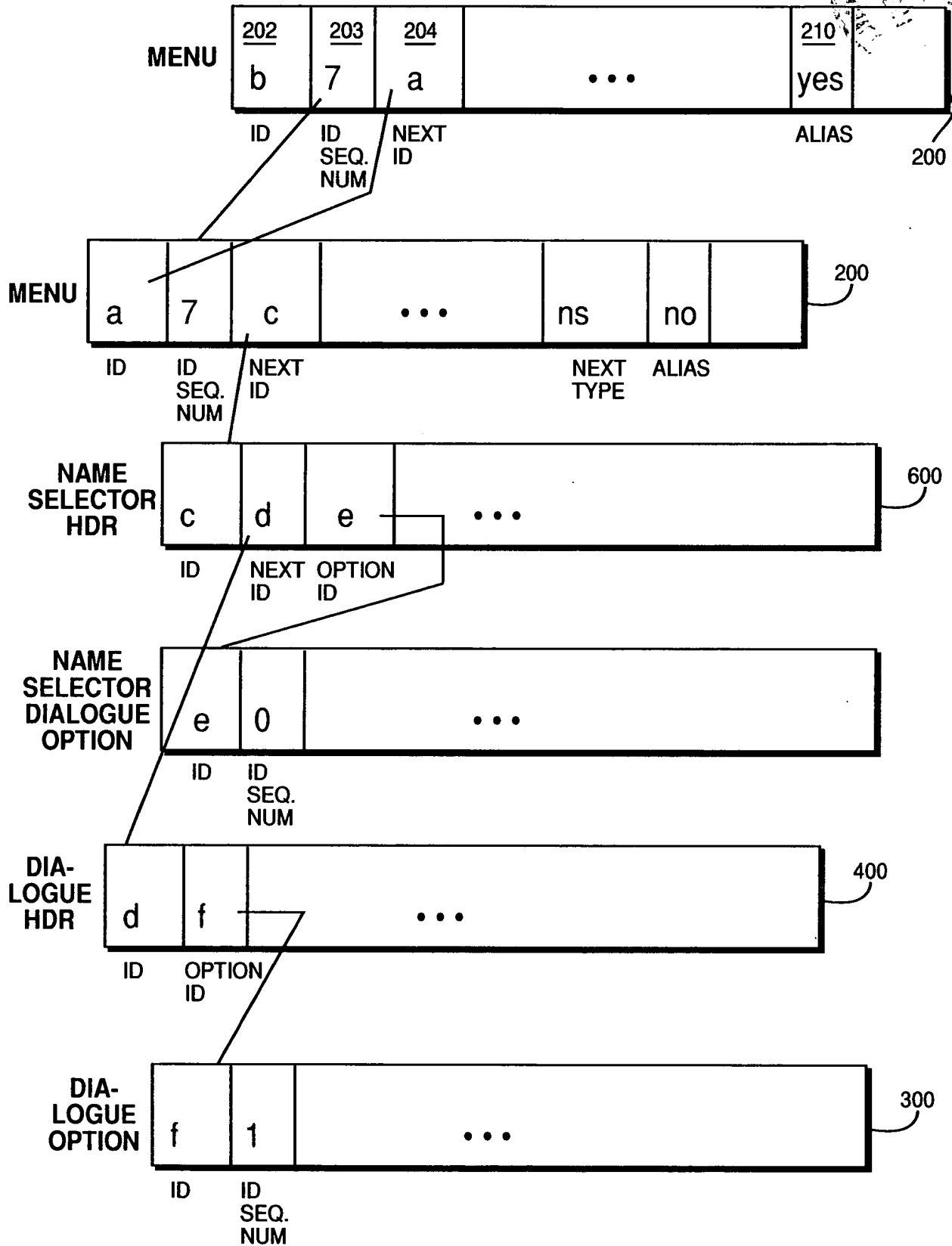


FIG. 9B

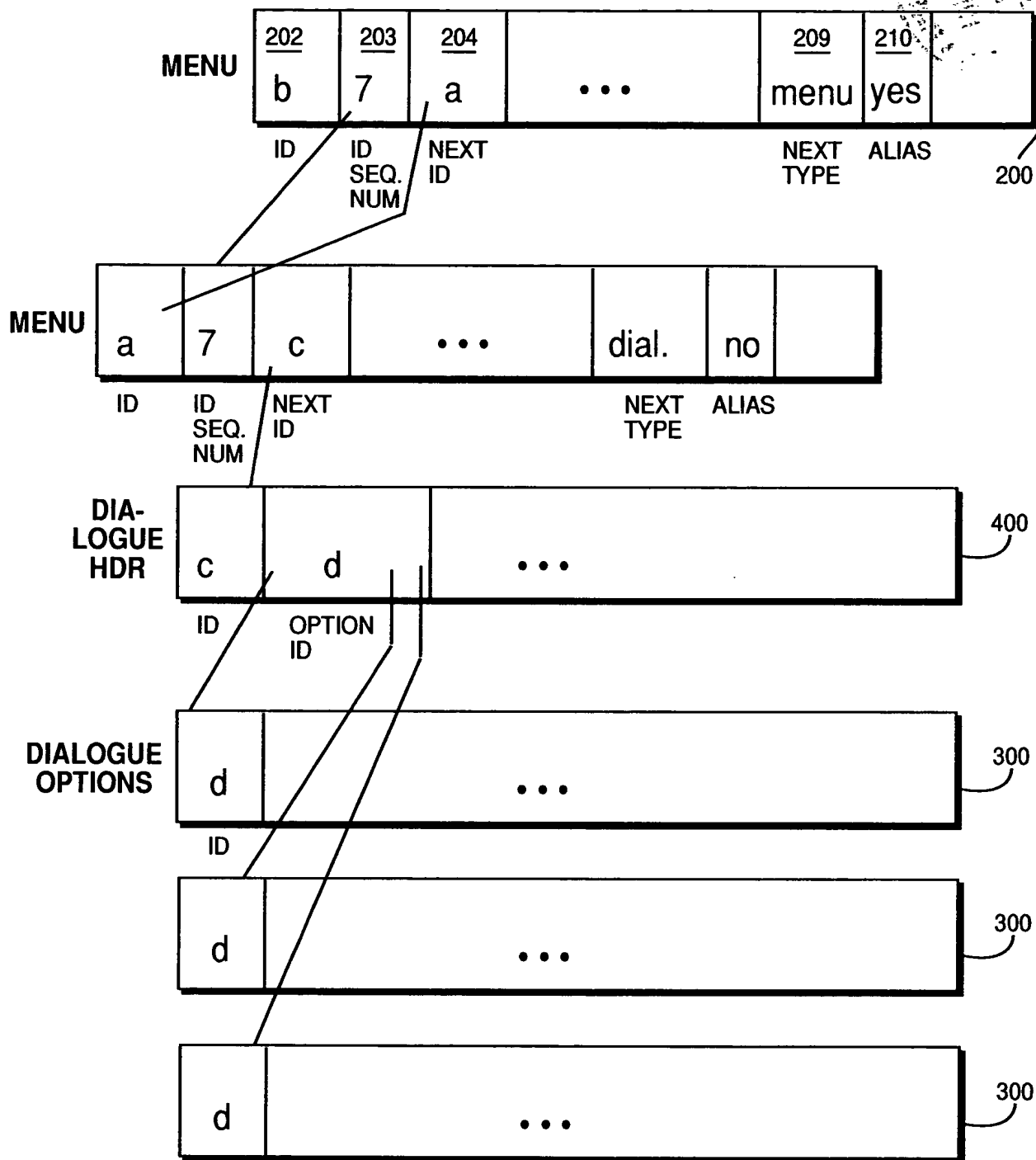


FIG. 9C



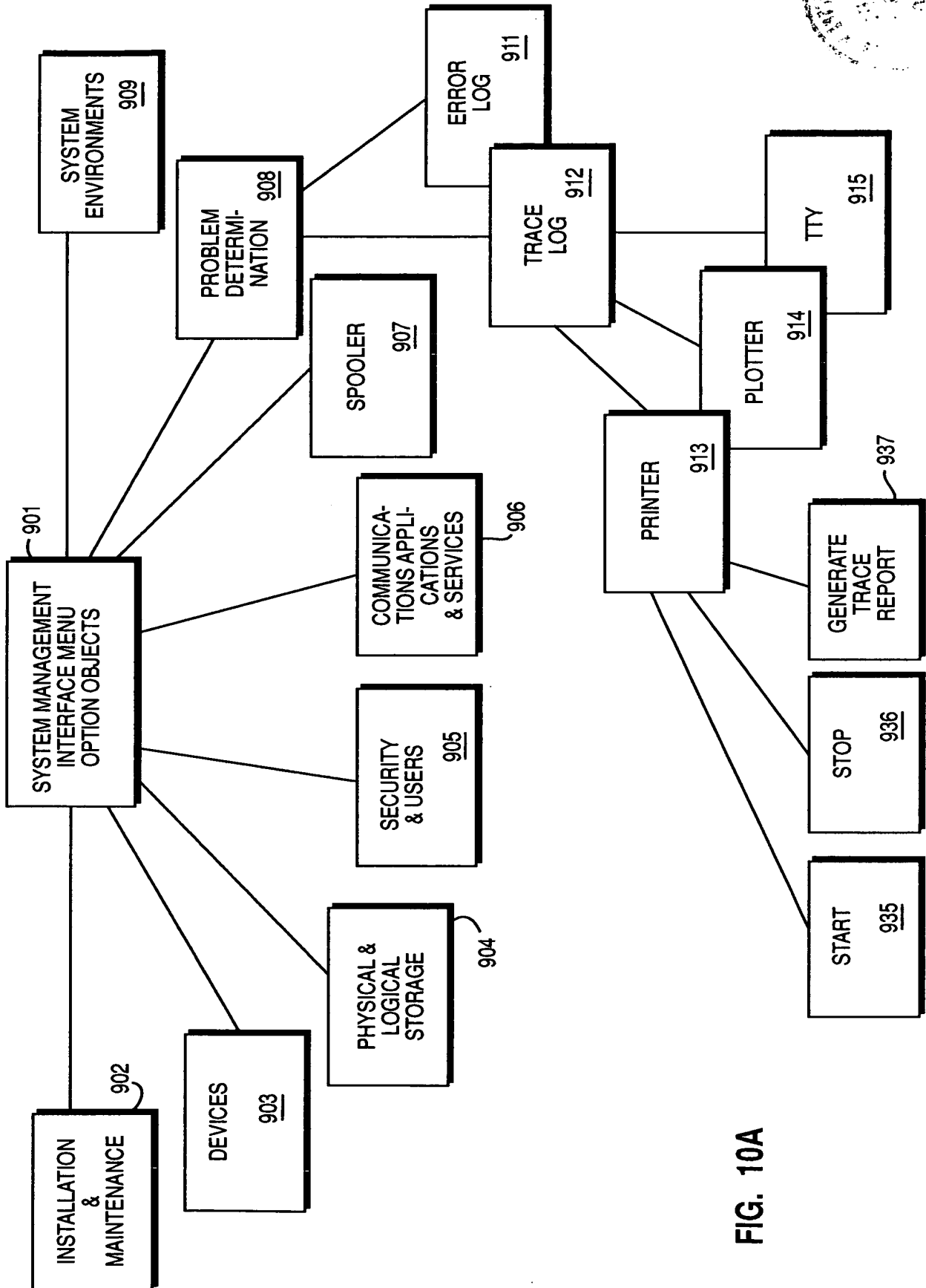


FIG. 10A

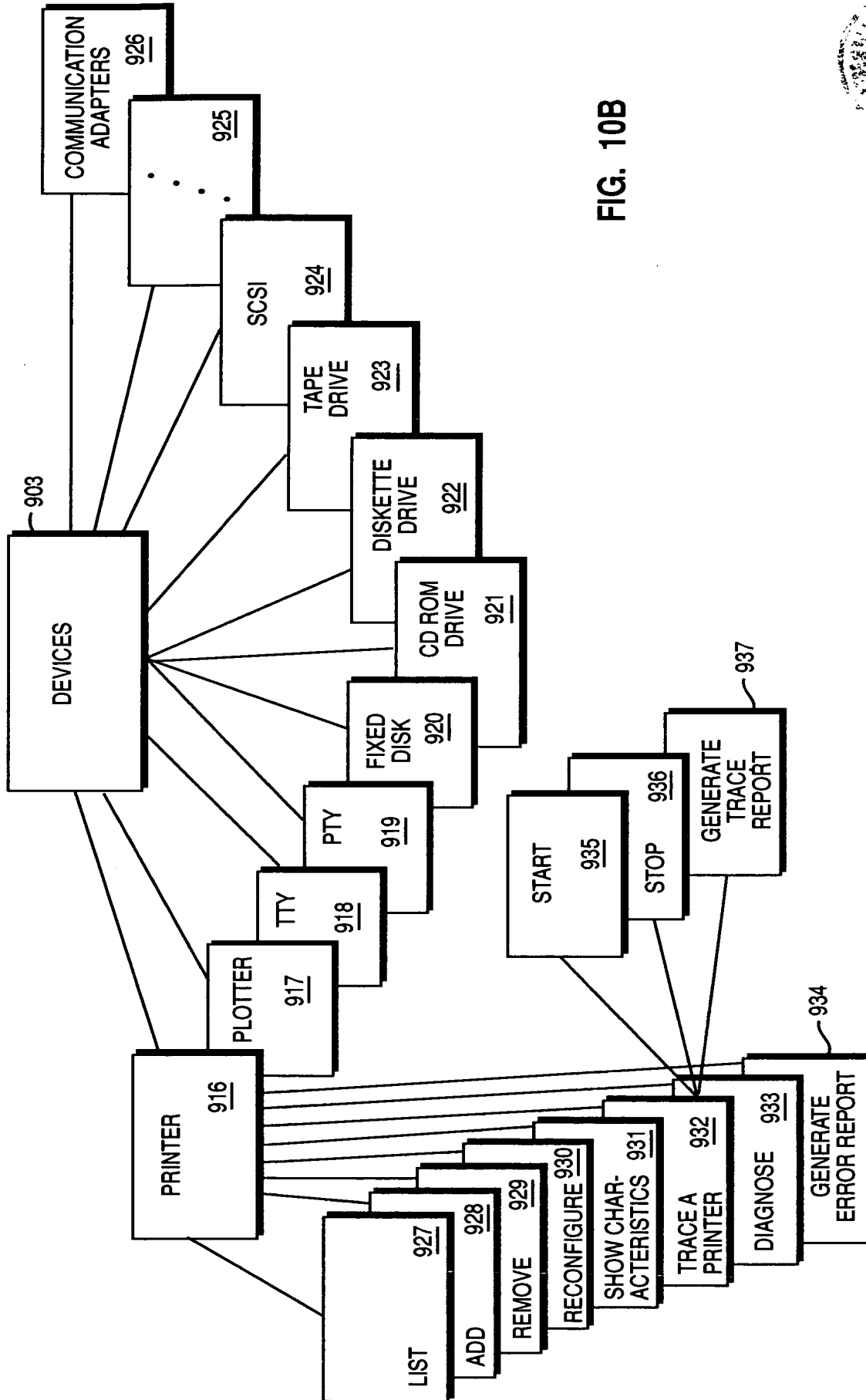


FIG. 10B

